

Title (en)

A waterproof connector sealing member and a waterproof connector

Title (de)

Dichtungselement für Wasserdichten Verbinder und Wasserdichter Verbinder

Title (fr)

Joint d'étanchéité pour connecteur étanche et connecteur étanche

Publication

EP 1592090 A1 20051102 (EN)

Application

EP 05103310 A 20050422

Priority

JP 2004134570 A 20040428

Abstract (en)

A waterproof connector sealing member (40) has a plurality of electrical wire insertion holes (42) that are formed in a flat plate-form sealing main body (41) and that extend between the two main surfaces of the sealing main body. A plurality of projecting ribs (43) are provided on the inner wall surface of each of the electrical wire insertion holes (42), and the projecting ribs (43) of respectively adjacent electrical wire insertion holes (42) are provided in different positions with respect to each other along the axial direction of the electrical wire insertion holes (42). Relief grooves (44a, to 44h) are formed in the sealing main body (41) in positions adjacent to the electrical wire insertion holes (42) in the vicinity of the outer edges of this sealing main body (41), with each of these relief grooves extending from one of the main surfaces that is closer to the projecting rib (43) (of the adjacent electrical wire insertion hole (42) provided toward the outside in the axial direction.

IPC 1-7

H01R 13/52

IPC 8 full level

H01R 13/52 (2006.01)

CPC (source: EP KR US)

H01R 13/52 (2013.01 - KR); **H01R 13/5208** (2013.01 - EP US)

Citation (search report)

- [A] US 6176739 B1 20010123 - DENLINGER KEITH ROBERT [US], et al
- [A] FR 2792120 A1 20001013 - FRAMATOME CONNECTORS INT [FR]

Citation (examination)

- WO 8705157 A1 19870827 - THOMAS & BETTS CORP [US]
- DE 10045706 A1 20010426 - YAZAKI CORP [JP]
- DE 9101162 U1 19920527
- WO 9628864 A1 19960919 - WHITAKER CORP [US]
- JP H02119372 U 19900926
- JP S62241277 A 19871021 - THOMAS & BETTS CORP

Cited by

EP2466693A1; CN100459302C; CN114447682A; US8568169B2; EP2251940A1; WO2008012099A1; WO2013135419A1

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EP 05103310 A 20050422; CN 200510070013 A 20050427; JP 2004134570 A 20040428; KR 20050035015 A 20050427; MY P120051836 A 20050427; US 11646805 A 20050428